

## PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

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**PCT**

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

(PCT Rule 43bis.1)

Date of mailing  
(day/month/year) **28 OCTOBER 2005 (28.10.2005)**

Applicant's or agent's file reference  
**050617**

**FOR FURTHER ACTION**

See paragraph 2 below

International application No.

**PCT/KR2005/001881**

International filing date (day/month/year)

**17 JUNE 2005 (17.06.2005)**

Priority date(day/month/year)

**02 FEBRUARY 2005 (02.02.2005)**

International Patent Classification (IPC) or both national classification and IPC

**IPC7 H05B 41/26**

Applicant

**KWON, Oh Young et al**

## 1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application


2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  
For further options, see Form PCT/ISA/220.

## 3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR

 Korean Intellectual Property Office  
920 Dunsan-dong, Seo-gu, Daejeon  
302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Date of completion of this opinion

**27 OCTOBER 2005 (27.10.2005)**

Authorized officer

**KIM, Tae Geun**

Telephone No. 82-42-481-8111



**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2005/001881

**Box No. 1 Basis of this opinion**

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing  
☐ table(s) related to the sequence listing

b. format of material

- ☐ on paper  
☐ in electronic form

c. time of filing/furnishing

- ☐ contained in the international application as filed.  
☐ filed together with the international application in electronic form.  
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2005/001881

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Claims	1 - 9	YES
	Claims	none	NO
Inventive step (IS)	Claims	1 - 9	YES
	Claims	none	NO
Industrial applicability (IA)	Claims	1 - 9	YES
	Claims	none	NO

**2. Citations and explanations :**

The present invention relates to a hybrid power supply system for a discharge lamp, including a piezoelectric transformer.

Reference is made to the following documents from the international search report.

D1 : US 6600273 B2

D2 : US 6028398 A

D1 discloses a ballast for fluorescent lamp using a piezoelectric transformer.

D2 discloses a CCFL driving apparatus using a piezoelectric transformer.

None of the above documents anticipates the piezoelectric inverter of the present invention, or makes it obvious to a person skilled in the art.

Accordingly the subject matter of claims 1 through 9 appears to be novel, and involve an inventive step. (PCT Article 33(2) and 33(3))

The industrial applicability of the subject matter of claims 1 through 9 is self-evident. (PCT Article 33(4))